

FIG.1

30

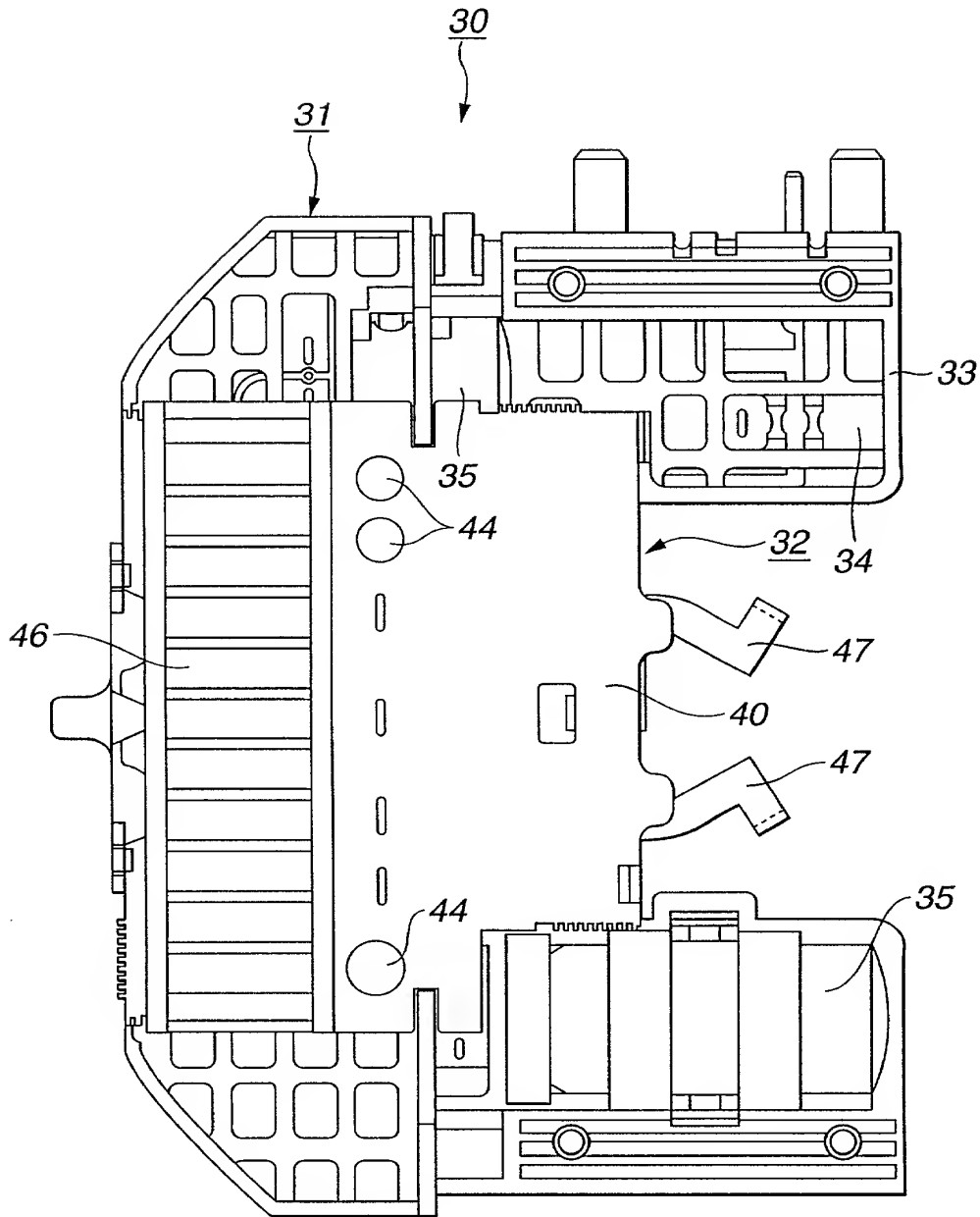
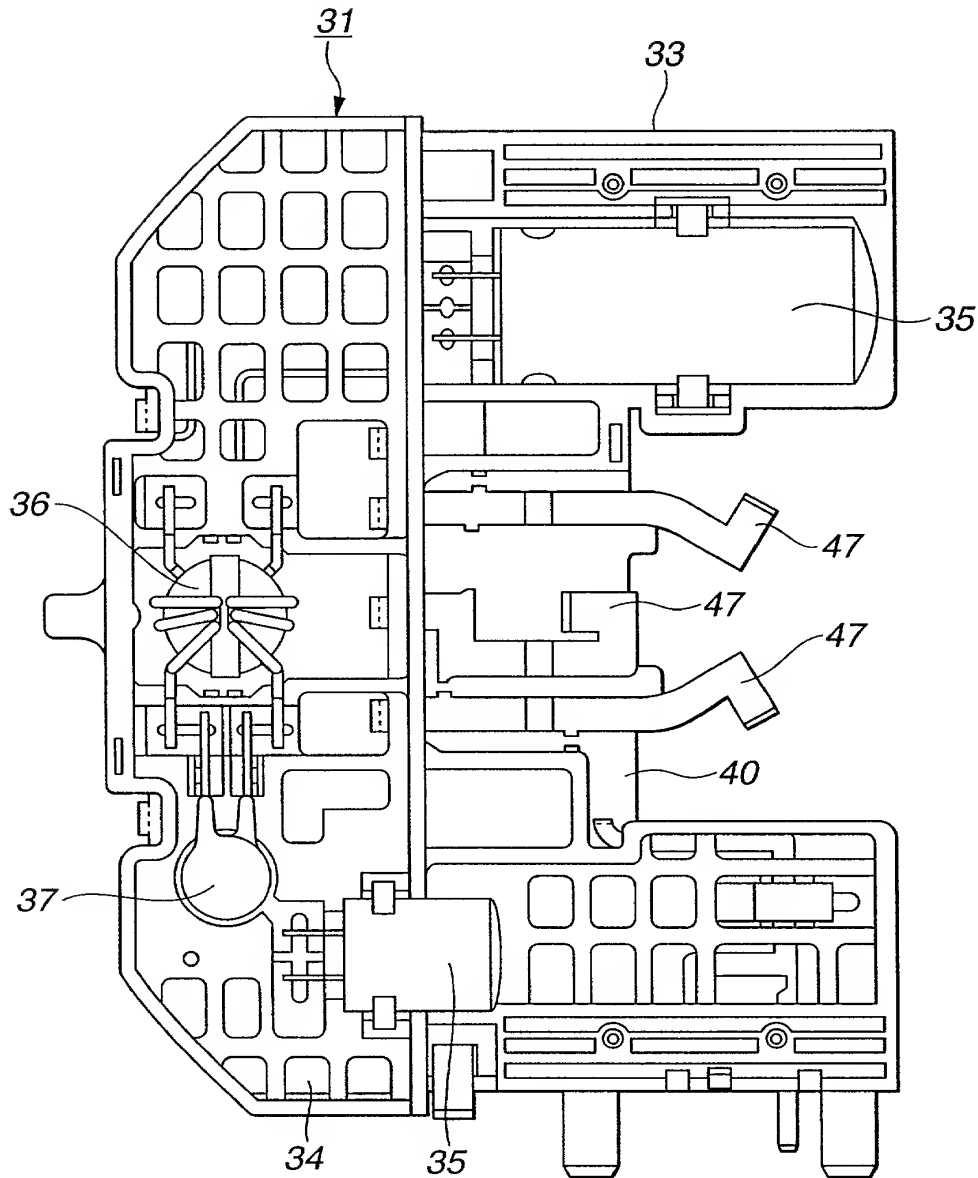
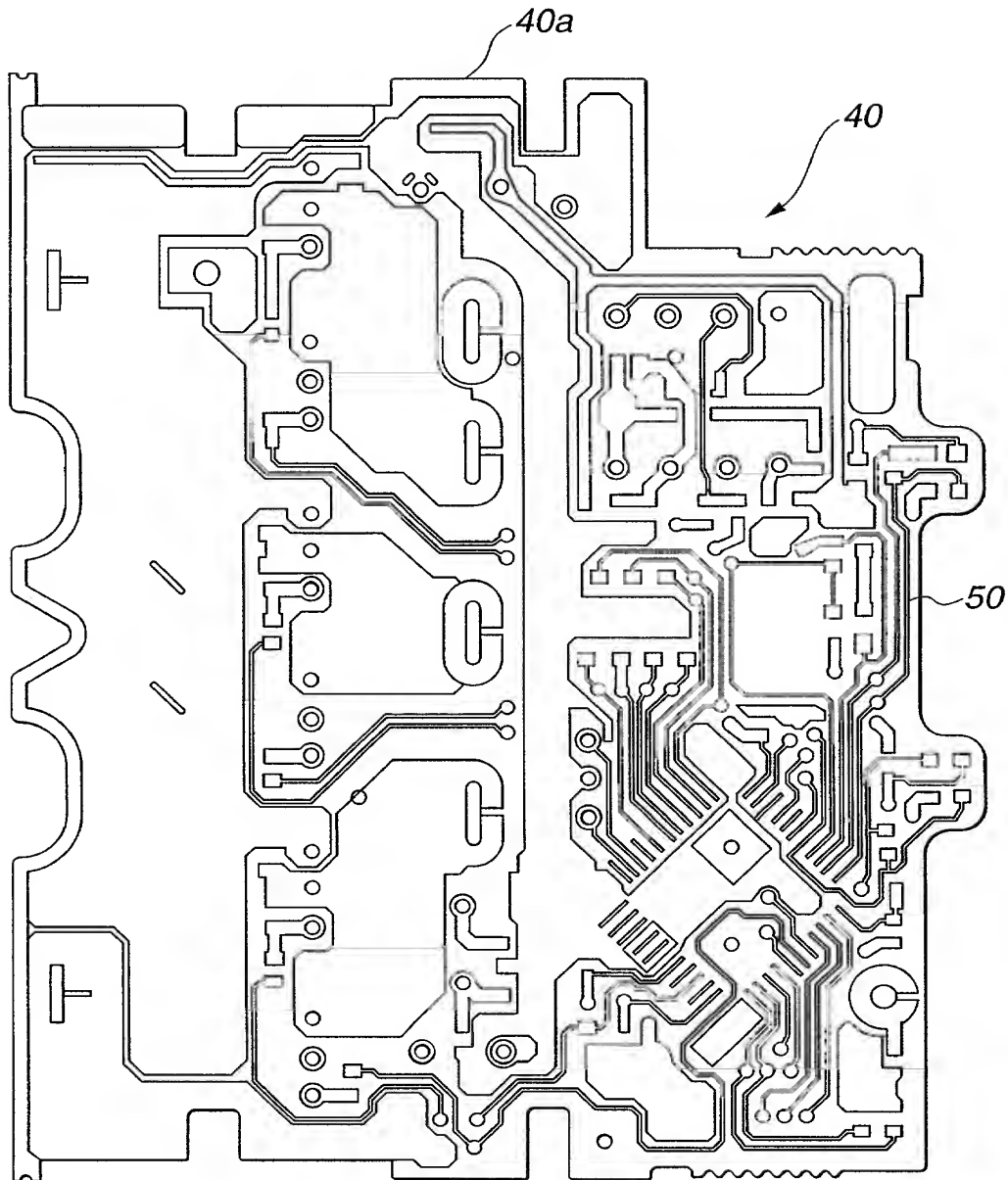


FIG.3



20140306 04102

FIG.4



1004-3305-01102

Parameter	Value	Unit
Initial concentration	100	mg/L
Final concentration	10	mg/L
Volume of water	100	L
Volume of adsorbent	10	g
Temperature	25	°C
Time	24	h
pH	7	
Shaking speed	150	rpm
Batch size	10	g
Adsorbent type	Activated carbon	
Adsorbent source	Commercial	
Adsorbent particle size	150	µm
Adsorbent surface area	1000	m ² /g
Adsorbent pore volume	0.5	cm ³ /g
Adsorbent density	0.5	g/cm ³
Adsorbent moisture content	5	%
Adsorbent ash content	10	%
Adsorbent iodine number	1000	mg/g
Adsorbent methylene blue number	100	mg/g
Adsorbent total organic carbon	10	%
Adsorbent total nitrogen	1	%
Adsorbent total phosphorus	0.1	%
Adsorbent total sulfur	0.1	%
Adsorbent total chlorine	0.1	%
Adsorbent total bromine	0.1	%
Adsorbent total iodine	0.1	%
Adsorbent total fluorine	0.1	%
Adsorbent total calcium	0.1	%
Adsorbent total magnesium	0.1	%
Adsorbent total potassium	0.1	%
Adsorbent total sodium	0.1	%
Adsorbent total iron	0.1	%
Adsorbent total zinc	0.1	%
Adsorbent total copper	0.1	%
Adsorbent total lead	0.1	%
Adsorbent total cadmium	0.1	%
Adsorbent total mercury	0.1	%
Adsorbent total chromium	0.1	%
Adsorbent total manganese	0.1	%
Adsorbent total cobalt	0.1	%
Adsorbent total nickel	0.1	%
Adsorbent total boron	0.1	%
Adsorbent total aluminum	0.1	%
Adsorbent total silicon	0.1	%
Adsorbent total oxygen	0.1	%
Adsorbent total hydrogen	0.1	%
Adsorbent total carbon	0.1	%
Adsorbent total nitrogen	0.1	%
Adsorbent total phosphorus	0.1	%
Adsorbent total sulfur	0.1	%
Adsorbent total chlorine	0.1	%
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Adsorbent total aluminum	0.1	%
Adsorbent total silicon	0.1	%
Adsorbent total oxygen	0.1	%
Adsorbent total hydrogen	0.1	%
Adsorbent total carbon	0.1	%
Adsorbent total nitrogen	0.1	%
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Adsorbent total sulfur	0.1	%
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Adsorbent total mercury	0.1	%
Adsorbent total chromium	0.1	%
Adsorbent total manganese	0.1	%
Adsorbent total cobalt	0.1	%
Adsorbent total nickel	0.1	%

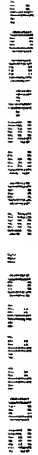


FIG.6

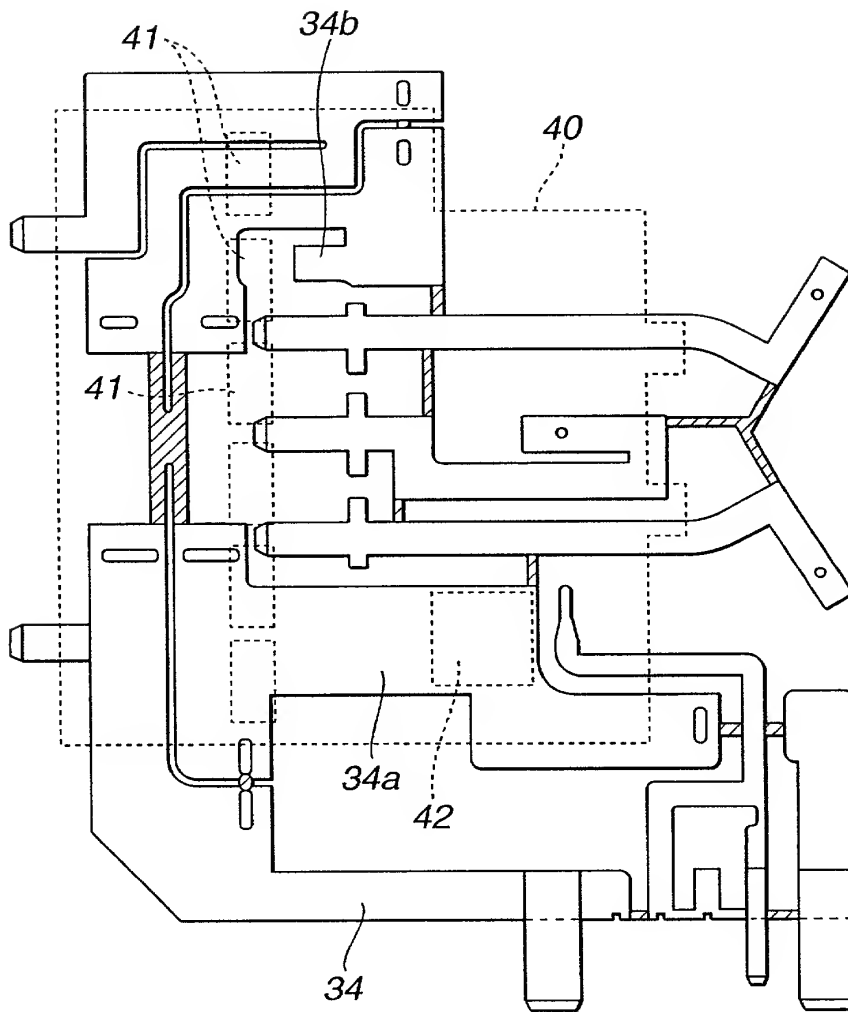


FIG.7A

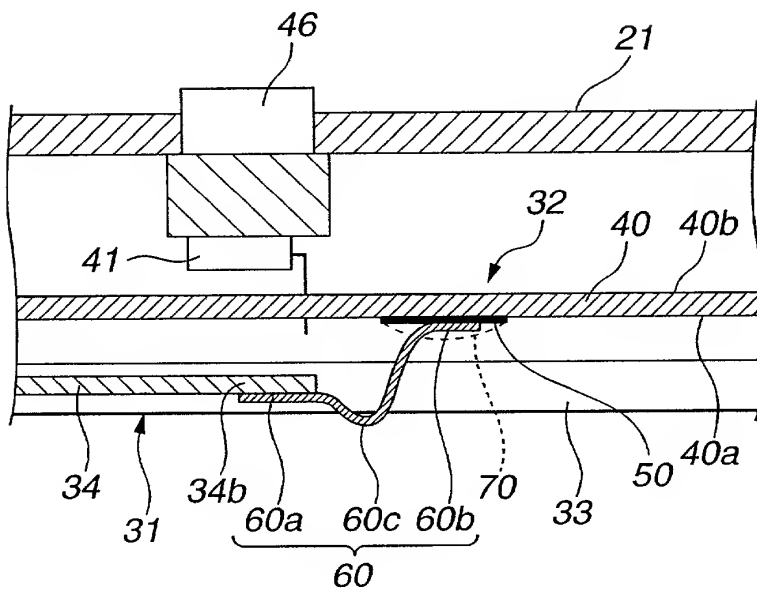


FIG. 7B

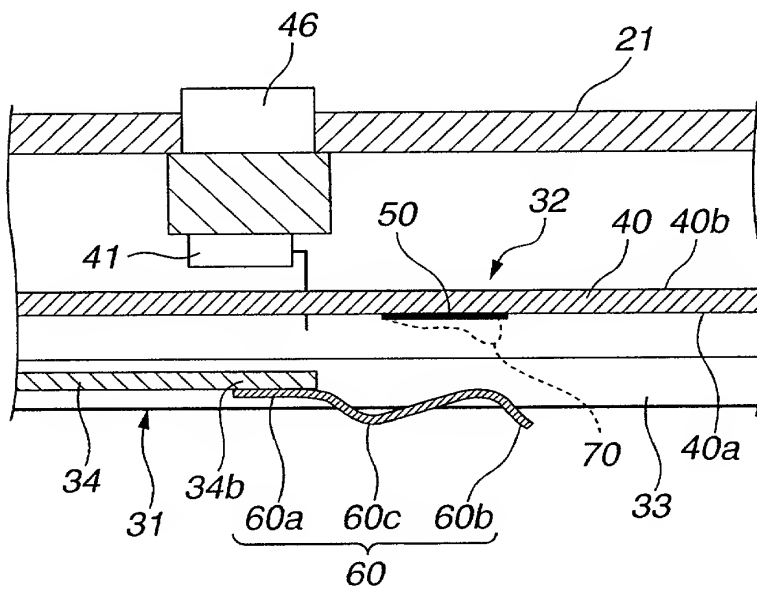


FIG.8A

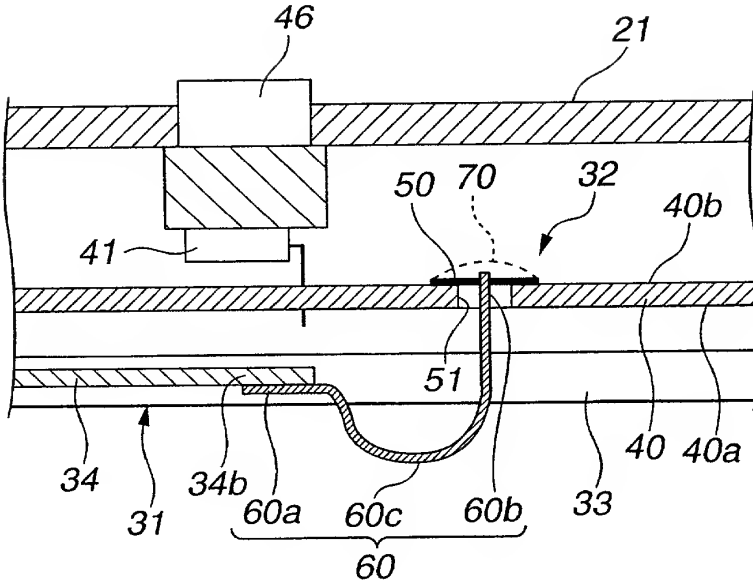


FIG. 8B

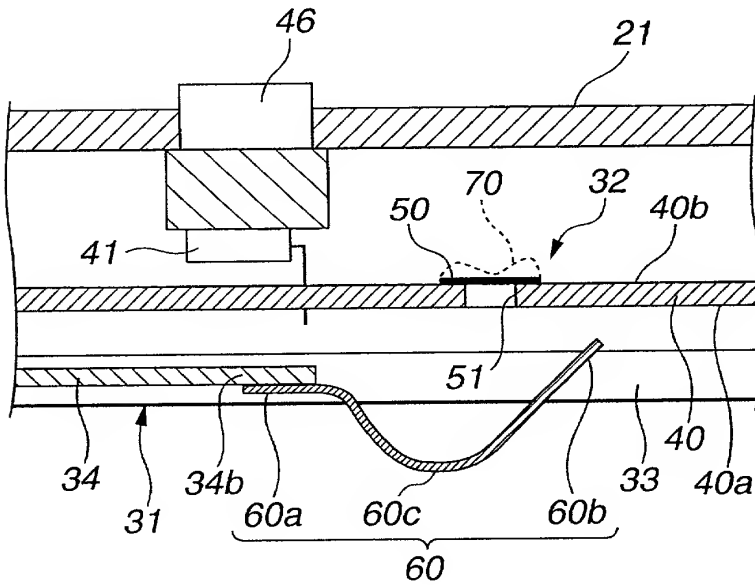


FIG.9A

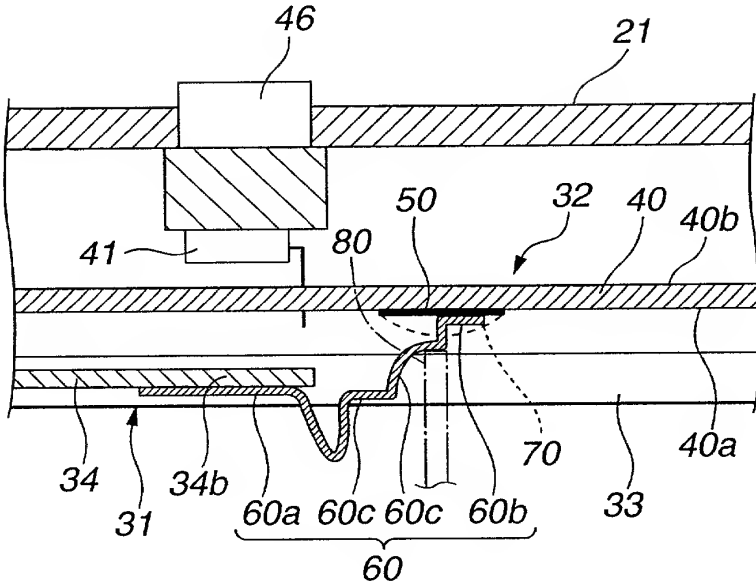


FIG.9B

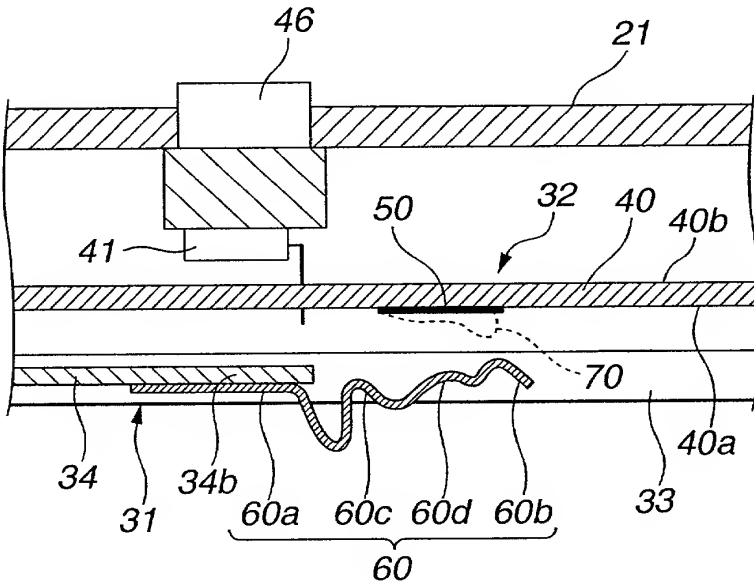


FIG.10

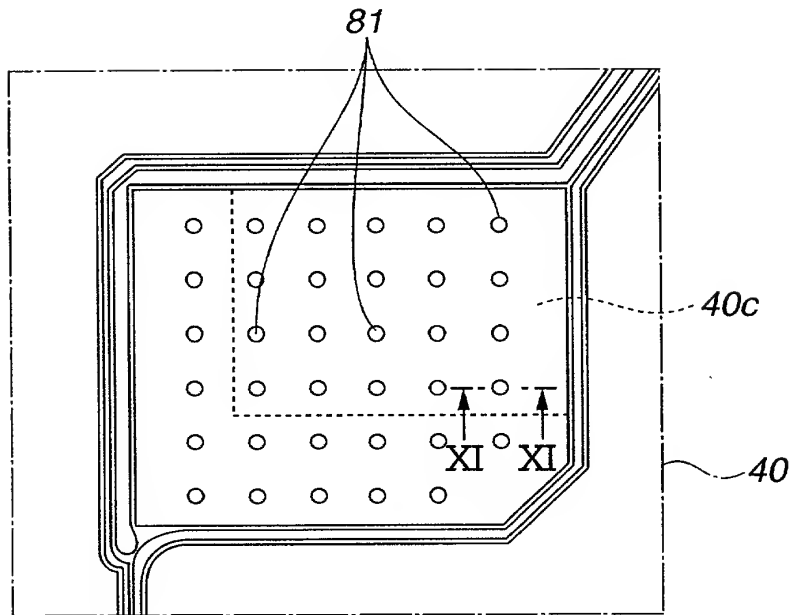


FIG.11

